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APPLICATION NO.	. ]	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/724,062		12/01/2003	Takuya Hamada	HAMA3008/EM 1728	
23364	75	90 05/11/2006		EXAMINER	
		IOMAS, PLLC	THOMPSON, CAMIE S		
625 SLATE FOURTH F				ART UNIT	PAPER NUMBER
ALEXANDRIA, VA 22314				1774	
				DATE MAILED: 05/11/2006	6

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/724,062	HAMADA ET AL.	
Office Action Summary	Examiner	Art Unit	<del></del>
	Camie S. Thompson	1774	
The MAILING DATE of this communication appearing for Reply	ppears on the cover sheet with	the correspondence addre	ess <b>-</b>
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICA .136(a). In no event, however, may a reply d will apply and will expire SIX (6) MONTH: tte, cause the application to become ABAN	TION. y be timely filed S from the mailing date of this comm DONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on <u>Am</u>	endment filed 2/28/06.		
2a) This action is <b>FINAL</b> . 2b) ☑ Th	is action is non-final.		
3) Since this application is in condition for allow		•	erits is
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 1	1, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 10-17 is/are pending in the applicating 4a) Of the above claim(s) is/are withdress.  5) Claim(s) is/are allowed.  6) Claim(s) 10-17 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examination 10) The drawing(s) filed on is/are: a) acceptant may not request that any objection to the Replacement drawing sheet(s) including the correct of the oath or declaration is objected to by the Examination.	cepted or b) objected to by e drawing(s) be held in abeyance ction is required if the drawing(s)	. See 37 CFR 1.85(a). is objected to. See 37 CFR	• •
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:  1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	nts have been received.  Its have been received in Apportity documents have been reau (PCT Rule 17.2(a)).	lication No ceived in this National Sta	age
Attachment(s)	_		
<ul> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date</li> </ul>		lail Date mal Patent Application (PTO-15	52)

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## **DETAILED ACTION**

1. Applicant's amendment and accompanying remarks filed February 28, 2006 have been acknowledged.

- 2. Examiner acknowledges amended claims 10-14.
- 3. Examiner acknowledges cancelled claims 1-9.
- 4. Examiner acknowledges newly added claims 15-17.
- 5. The rejection of claim 1 under 35 U.S.C. 102(b) as being anticipated by JP 02-120389 is withdrawn due to applicant's cancelled claim 1.
- 6. The rejection of claim 1 under 35 U.S.C. 102(e) as being anticipated by Mueller et al., U.S. Patent Number 6,686,691 is withdrawn due to applicant's cancelled claim 1.
- 7. The rejection of claims 1-2 and 5-7 under 35 U.S.C. 102(a) as being unpatentable over deSouza, U.S. Patent Number 4,684,353 is withdrawn due to applicant's cancelled claims 1-9.

## Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 9. Claims 10, 13-14 and 17 are rejected under 35 U.S.C. 102(e) as being anticipated by Komatsu et al., U.S. Pre-Grant Publication 2003/0071560.

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Komatsu discloses a field emission display that has a structure with a plane-shaped field emission type electron source mounted on a rear plane of enclosed a vacuum box and phosphor layers (see paragraph 0003). Paragraph 0009 of the reference discloses that the phosphor layer comprises a mixture of main phosphors and small particle phosphors. Paragraphs 0014 and 0015 disclose that the main phosphors can be SrTiO<sub>3</sub>:Pr (red phosphor) and small particle phosphor ZnGa<sub>2</sub>O<sub>4</sub>:Mn or ZnS:Cu. It is disclosed in paragraph 0018 that the phosphor layer is formed by mixing the small particle phosphors into the main phosphors in a range larger than or equal to 10 weight% and also smaller than, or equal to 40 weight %.

10. Claims 11-12 and 15-16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The prior art does not provide for the recited fluorescent display device, further including the phosphor of the green family luminous color is ZnS:Cu, Al or ZnS:Au,Al and the mixing ratio is about 5 to 50 weight percent.

## Response to Arguments

11. Applicant's arguments with respect to the instant claims have been considered but are most in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Camie S. Thompson whose telephone number is (571) 272-1530. The examiner can normally be reached on Monday through Friday from 7:30 am to 4:00 pm. If

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attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena L Dye, can be reached at (571) 272-3186. The fax phone number for the Group is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RENA DYE SUPERVISORY PATENT EXAMINER

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